

## Amendments to the Claims:

### Listing of Claims:

1. (Currently Amended) A method for validating a plurality of data in a backend driven environment, the method comprising the steps of:  
a computer creating an XML Schema for a database, wherein the XML Schema contains a plurality of rules for validating a plurality of data in the database;  
the computer copying the database to a hashtable;  
the computer designating a query interval;  
the computer, [[upon]] responsive to an [[the]] occurrence of a query interval, comparing the database to the hashtable;  
the computer determining if the database and the hashtable are identical; and  
the computer, responsive to determining that [[when]] the database and the hashtable are not identical[[.]];  
creating a new XML Schema, the creating the new XML Schema including  
automatically updating the plurality of rules[[.]];  
deleting the hashtable; and  
saving the database as a new hashtable; and  
~~wherein the creating a new XML Schema includes automatically updating the plurality of rules; and~~  
wherein [[a]]the new XML Schema is created only when a determination is made that the database and the hashtable are not identical.
2. (Canceled)
3. (Currently Amended) The method of claim 1 further comprising:  
the computer, responsive to determining that [[when]] the database and the hashtable are identical. [[.]]resetting the query interval ~~and repeating the steps in claim 1.~~
4. (Canceled)

5. (Currently Amended) The method of claim 1 further comprising:  
the computer when the database and the hashtable are not identical, storing the new XML Schema in a web server's virtual root.
6. (Currently Amended) The method of claim 1 wherein:  
the step of copying the database to the hashtable comprises the computer copying  
~~wherein~~ a limited number of tables from the database ~~are copied~~ to the hashtable; and  
the step of comparing the database to the hashtable comprises the computer wherein upon  
~~the occurrence of a query interval, comparing the database~~ a plurality of tables in the database  
~~are compared~~ to the tables in the hashtable.
7. (Currently Amended) The method of claim 1 wherein:  
the step of copying the database to the hashtable comprises the computer copying  
~~wherein~~ a database metadata ~~is copied~~ to the hashtable; and  
the step of comparing the database to the hashtable comprises the computer wherein upon  
~~the occurrence of a query interval, comparing the database metadata is compared~~ to the metadata  
in the hashtable.
8. (Currently Amended) The method of claim 1 further comprising:  
the computer notifying a registered party of an update to the XML Schema.
9. (Canceled)
10. (Currently Amended) A [[first]] method for validating proposed additions to a database comprising:  
a computer creating an XML Schema for the database;  
the computer copying the database to a hashtable;  
the computer designating a query interval;  
responsive to an occurrence of the query interval, the computer comparing the database to  
the hashtable;

the computer determining if the database and the hashtable are identical;  
responsive to determining that the database and the hashtable are not identical, the  
computer creating a new XML Schema for the database;  
the computer accessing [[an]]the new XML Schema stored in a web server's virtual root;  
the computer checking the validity of a data using the new XML Schema;  
submitting the data to a database;  
the computer validating the data using the new XML Schema; [[and]]  
the computer, responsive to a validation of the data, adding the validated data to the  
database;  
wherein the XML Schema is created by a second method comprising: creating an XML  
Schema for a database; copying the database to a hashtable; designating a query interval;  
upon the occurrence of the query interval, comparing the database to the hashtable;  
determining if the database and the hashtable are identical; and when the database and the  
hashtable are not identical, creating a new XML Schema; and  
the computer notifying a registered party of an update to the XML Schema.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The [[first]] method of claim 10 further comprising:  
the computer, responsive to determining that wherein the second method further  
comprises: when the database and the hashtable are identical,[[:]]resetting the query  
interval and repeating the steps in claim 10.

14. (Currently Amended) The method of claim 10 ~~wherein the second method~~ further  
 compris[es]]ing:  
responsive to determining that the database and the hashtable are not identical, the  
computer deleting the hashtable and saving the database as a new hashtable.

15. (Currently Amended) The method of claim 10 ~~wherein the second method further comprises~~ comprising:  
the computer storing the new XML Schema in [[a]]the web server's virtual root.
16. (Currently Amended) The ~~[[first]]~~ method of claim 10 ~~wherein the second method further comprises~~ wherein:  
the step of copying the database to the hashtable comprises the computer copying  
a limited number of tables from the database ~~are copied~~ to the hashtable; and ~~wherein~~  
~~upon the occurrence of~~  
the step of comparing the database to the hashtable comprises the computer a  
query interval, comparing a plurality of the database tables in the database are compared  
to the tables in the hashtable.
17. (Currently Amended) The ~~[[first]]~~ method of claim 10 ~~wherein the second method further comprises~~ wherein:  
the step of copying the database to the hashtable comprises the computer copying  
[[a]] database metadata ~~is copied~~ to the hashtable; and  
the step of comparing the database to the hashtable comprises the computer  
~~wherein upon the occurrence of a query interval, comparing the database metadata is compared~~  
to the metadata in the hashtable.
18. (Canceled)
19. (Canceled)
20. (Currently Amended) A program product operable on a computer, the program product comprising:  
a computer-usable medium one or more computer-readable tangible storage devices;  
wherein the computer-usable medium comprises instructions contained in the program  
product comprising:

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to create instructions for creating an XML Schema for a database[:]; the XML Schema containing wherein the XML Schema contains a plurality of rules for validating a plurality of data in the database;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to copy instructions for copying the database to a hashtable;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to designate instructions for designating a query interval;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to compare the database to the hashtable in response to an upon the occurrence of the query interval, instructions for comparing the database to the hashtable;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to determine instructions for determining if the database and the hashtable are identical; and

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to determining that [[when]] the database and the hashtable are not identical, instructions for creating to create a new XML Schema, delete the hashtable, and save the database as a new hashtable; wherein the instructions for creating a new XML Schema cause the computer to automatically update the plurality of rules; and

wherein the new XML Schema is created only when a determination is made that the database and the hashtable are not identical

wherein the program instructions to create the new XML Schema automatically update the plurality of rules and create the new XML Schema only when a determination is made that the database and the hashtable are not identical.

21. (Canceled)

22. (Currently Amended) The program product of claim 20 further comprising:

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to determining that [[when]] the database and the hashtable

are identical, instructions for resetting to reset the query interval ~~and repeating the steps in claim 20.~~

23. (Canceled)

24. (Currently Amended) The program product of claim 20 further comprising:  
program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to store ~~when the database and the hashtable are not identical, instructions for storing~~ the new XML Schema in a web server's virtual root.

25. (Currently Amended) The program product of claim 20 wherein:  
the program instructions to copy the database to the hashtable copy ~~wherein~~ a limited number of tables from the database ~~are copied~~ to the hashtable; and  
the program instructions to compare the database to the hashtable compare ~~wherein upon the occurrence of a query interval, the database a plurality of tables in the database are compared~~ to the tables in the hashtable.

26. (Currently Amended) The program product of claim 20 wherein:  
the program instructions to copy the database to the hashtable copy ~~wherein~~ a database metadata ~~is copied~~ to the hashtable; and  
the program instructions to compare the database to the hashtable compare ~~wherein upon the occurrence of a query interval, the database metadata is compared~~ to the metadata in the hashtable.

27. (Currently Amended) The program product of claim 20 further comprising:  
program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to notify ~~notifying~~ a registered party of an update to the XML Schema.

28. (Canceled)

29. (Currently Amended) A [[first]] program product operable on a computer, the program product comprising:

~~a computer-usable medium~~ one or more computer-readable tangible storage devices;

~~wherein the computer-usable medium comprises executable instructions contained in the program product comprising:~~

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to create an XML Schema for a database;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to copy the database to a hashtable;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to designate a query interval;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to an occurrence of the query interval, to compare the database to the hashtable;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to determine if the database and the hashtable are identical;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to determining that the database and the hashtable are not identical, to create a new XML Schema for the database;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to instructions-for-access[[ing]] [[an]] the XML Schema stored in a web server's virtual root[[:]]; ~~wherein the XML Schema contains a plurality of rules for validating a plurality of data in the database;~~

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to instructions-for-check[[ing]] [[the]] a validity of a data using the new XML Schema;

~~instructions for submitting the data to a database;~~

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to instructions-for-validate[[ing]] the data using the new XML Schema; [[and]]

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, to instructions for add[[ing]], responsive to a validation of the data, the validated data to the database; and

wherein the XML Schema is created by a second program product comprising:

instructions for designating a query interval;

instructions for creating an XML Schema for the database;

instructions for copying the database to a hashtable upon the occurrence of the query interval;

instructions for comparing the database to the hashtable;

instructions for determining if the database and the hashtable are identical; and

when the database and the hashtable are not identical, instructions for creating a new XML Schema;

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, wherein the instructions for creating a new XML Schema cause the computer to automatically update the plurality of rules to notify a registered party of an update to the XML Schema; and

wherein the new XML Schema is created only when a determination is made that the database and the hashtable are not identical.

30. (Canceled)

31. (Canceled)

32. (Currently Amended) The [[first]] program product of claim 29 ~~wherein the second program product further comprises~~ further comprising:

program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to a determining that [[when]] the database and the hashtable are identical, instructions for resetting to reset the query interval and repeating the steps in claim 29.



33. (Currently Amended) The [[first]] program product of claim 29 wherein ~~the second program product further comprises further comprising:~~  
program instructions, stored on at least one of the one or more computer-readable tangible storage devices, responsive to determining that the database and the hashtable are not identical, to delete instructions for deleting the hashtable and to save saving the database as a new hashtable.
34. (Currently Amended) The [[first]] program product of claim 29 ~~wherein the second program product further comprises further comprising:~~  
program instructions, stored on at least one of the one or more computer-readable, tangible storage devices, to store instructions for storing the new XML Schema in [[a]]the web server's virtual root.
35. (Currently Amended) The [[first]] program product of claim 29 wherein:  
the program instructions to copy the database to the hashtable copy wherein a limited number of tables from the database are copied to the hashtable; and  
the program instructions to compare the database to the hashtable compare wherein upon the occurrence of a query interval, the database tables are compared to the tables in the hashtable.
36. (Currently Amended) The [[first]] program product of claim 29 wherein:  
the program instructions to copy the database to the hashtable copy wherein a database metadata is copied to the hashtable; and  
the program instructions to compare the database to the hashtable compare wherein upon the occurrence of a query interval, the database metadata is compared to the metadata in the hashtable.
37. (Currently Amended) The program product of claim 29 further comprising:  
program instructions, stored on at least one of the one or more computer-readable, tangible storage devices, to notify notifying a registered party of an update to the XML Schema.
38. (Canceled)